

# *Learn AI Online*

*More than 200 resources online to start learning AI today*



Jair Ribeiro

# Introduction

Artificial Intelligence has, over the last few years, become one of the main driving forces in the field of technological innovation and economic development-still provoking a revolution in social relations-and it has required all of us to acquire new knowledge and additional skills.

Just as mastering at least one Microsoft Word or Excel has become a prerequisite for most of the work in companies today, having a minimum understanding or even a knowledge of how to use AI tools is already something that is expected for the work of the future and is likely to soon become one of the many requirements needed by anyone in a job interview during the following years.

However, in the ocean of available information, how can we begin to navigate this universe?

With this book, I have organized a list of resources available online, with free lectures and courses that allow you to better understand how you can benefit from AI technologies and how to apply them to your professional life.

This book collects the best articles, websites, and free training courses online about Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Business Intelligence, Analytics, and others to help you start learning and develop your career.

It is dedicated to anyone interested in these technologies and anyone who wants to learn and understand them and initiate or develop a career in these fields.

If you want to start learning AI, Machine Learning, Deep Learning, and Data Science, this ebook can help you find the best resources online.

But are you asking yourself: What is Artificial Intelligence, or rather, how can you understand it in the context of the future of your work? What is the difference between machine learning and deep learning?

These concepts can be easily confused, so you may feel lost entirely before you start navigating them. So, before you dive into this sea of information, let us recap some of the most common terms first.

## Contents

What is Artificial intelligence? .....	7
What are Machine learning and Deep Learning? .....	7
The most impressive Youtube Channels for you to Learn AI, Machine Learning, and Data Science. ....	8
SpringBoard .....	9
Machine Learning 101 .....	9
FreeCodeCamp .....	9
Data School .....	9
Andreas Kretz .....	9
Edureka! .....	10
Andrew Ng .....	10
Deeplearning.ai .....	10
Tech with Tim .....	10
Machine Learning University (MLU) .....	10
Artificial Intelligence — All in One .....	10
Sentdex .....	10
Joma Tech .....	10
Python Programmer .....	10
Deep Learning TV .....	10
Google Cloud Platform .....	11
Keith Galli .....	11
Data Science Dojo .....	11
12 (+Bonus) amazing Youtube Channels To Learn Python Programming for Free .....	12
Clever Programmer .....	12
Anaconda Inc. ....	12
Talk Python .....	12
Christian Thompson .....	13
CodingEntrepreneurs .....	13
Corey Schafer .....	13
Chris Hawkes .....	13
Enthought .....	13
Real Python .....	13
Sentdex (Harrison Kinsley) .....	13
Telusko .....	13

The Best MIT Online Resources for You to Learn AI and Machine Learning for Free .....	14
Why should you learn AI and Machine Learning? .....	14
Are you ready? .....	15
Artificial Intelligence .....	15
Introduction to Machine Learning .....	15
Machine Learning .....	15
Introduction to Computational Thinking and Data Science .....	16
Techniques in Artificial Intelligence (SMA 5504) .....	16
Mathematics of Machine Learning .....	16
Introduction to Deep Learning .....	16
Machine Learning for Healthcare .....	16
Deep Learning for Self Driving Cars .....	16
Enter Julia, a rising star on AI development .....	16
Discovering a brave new planet .....	17
The best free courses to learn AI, ML, and Data Science today .....	18
Algorithms, Part I (Free) .....	18
Bitcoin and Cryptocurrency Technologies (Free) .....	19
Algorithms, Part II (Free) .....	19
Audio Signal Processing for Music Applications (Free) .....	19
Computer Science: Algorithms, Theory, and Machines (Free) .....	20
Analysis of Algorithms (Free) .....	20
Approximation Algorithms Part I (Free) .....	20
Networks: Friends, Money, and Bytes (Free) .....	20
Computer Science: Programming with a Purpose (Free) .....	21
Networks Illustrated: Principles without Calculus (Free) .....	21
Approximation Algorithms Part II (Free) .....	21
Enjoyable Econometrics (Free) .....	21
Machine Learning (Free to Audit) .....	22
Cryptography I (Free to Audit) .....	22
Introduction to Programming with MATLAB (Free to Audit) .....	22
Build Your First Android App (Project-Centered Course) (Free to Audit) .....	22
Learn to Program: The Fundamentals (Free to Audit) .....	23
Cybersecurity and Its Ten Domains (Free to Audit) .....	23
Econometrics: Methods and Applications (Free to Audit) .....	23
C++ For C Programmers, Part A (Free to Audit) .....	23

Internet History, Technology, and Security (Free to Audit).....	24
Gamification (Free to Audit) .....	24
Python Programming: A Concise Introduction (Free to Audit).....	24
Build a Modern Computer from First Principles: From Nand to Tetris (Project-Centered Course) (Free to Audit) .....	24
Code Yourself! An Introduction to Programming (Free to Audit) .....	25
Bayesian Statistics: From Concept to Data Analysis (Free to Audit) .....	25
Introduction to User Experience Design (Free to Audit) .....	25
Programming Languages, Part A (Free to Audit).....	25
Programming Mobile Applications for Android Handheld Systems: Part 1 (Free to Audit)	26
Computational Neuroscience (Free to Audit).....	26
Introduction to Web Development (Free to Audit).....	26
Control of Mobile Robots (Free to Audit).....	26
Interactive Computer Graphics (Free to Audit) .....	27
Learn to Program: Crafting Quality Code (Free to Audit) .....	27
Software-Defined Networking (Free to Audit).....	27
Discrete Optimization (Free to Audit) .....	28
Process Mining: Data science in Action (Free to Audit).....	28
Improving your statistical inferences (Free to Audit) .....	28
Version Control with Git (Free to Audit).....	29
Practical Time Series Analysis (Free to Audit) .....	29
Agile with Atlassian Jira (Free to Audit) .....	29
Kotlin for Java Developers (Free to Audit) .....	29
Blockchain: Foundations and Use Cases (Free to Audit).....	29
Introduction to Augmented Reality and ARCore (Free to Audit).....	30
The Unix Workbench (Free to Audit).....	30
Bayesian Statistics: Techniques and Models (Free to Audit) .....	30
Interprofessional Healthcare Informatics (Free to Audit) .....	31
Information Security: Context and Introduction (Free to Audit) .....	31
An Intuitive Introduction to Probability (Free to Audit) .....	31
Principles of fMRI 1 (Free to Audit).....	31
Getting Started with AWS Machine Learning (Free to Audit).....	32
Computational Thinking for Problem Solving (Free to Audit).....	32
Experimentation for Improvement (Free to Audit).....	32
Build a Modern Computer from First Principles: Nand to Tetris Part II (project-centered course) (Free to Audit).....	32

Data Processing Using Python (Free to Audit).....	33
International Cyber Conflicts (Free to Audit).....	33
Social Media Data Analytics (Free to Audit) .....	33
Continuous Delivery & DevOps (Free to Audit).....	34
C++ For C Programmers, Part B (Free to Audit).....	34
Julia Scientific Programming (Free to Audit).....	34
Data Analytics for Lean Six Sigma (Free to Audit).....	34
VLSI CAD Part I: Logic (Free to Audit).....	34
These are some of the best Youtube channels where you can learn PowerBI and Data Analytics for free.....	36
Why PowerBI? .....	36
Microsoft PowerBI Channel (243K subscribers).....	37
PowerBI Tips (6.38K subscribers).....	37
Guy in a Cube (150K subscribers).....	37
BI Elite (28.4K subscribers).....	37
Curbal (57K subscribers) .....	37
Enterprise DNA (41.6K subscribers) .....	37
RADACAD (13.2K subscribers) .....	37
Pavan Lalwani — POWER BI (7.23K subscribers) .....	37
Other resources .....	37
Microsoft guided learning .....	38
Microsoft PowerBI blog.....	38
Microsoft PowerBI Webinars.....	38
Official Power BI Community.....	38
Conclusion.....	38
Other articles you should read... ..	39
References.....	40